## This Page Is Inserted by IFW Operations and is not a part of the Official Record

## BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

## IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

Title: PRODUCTION OF ADENING TIDE TRANSLOCATOR (ANT), NOVEL ANT LOND TO SCREENING ASSAYS THEREFOR Express Mail No. EL 755725003 US

Inventors: Christen M. Anderson et at. Serial No. 09/811,131 Docket No. 660088.420D1

ANT1m ANT2m ANT3m	ATGEGTGATCACGCTTTGGAGCTTCCTAAAGGACTTCCTGGCCGGGGCGGTCGCCGCTGCCGTTCCCAAGACGGCGGTGCCATGCCAAGACGGCGGTAGCATGACGAGATGCCCAATGTCCTTCGCCAAGACTTCCTGGCAGTGGAGTGGCCAATGCCAATGTCCTTCGCCAAGACGGCGGTAGCATGTCGCCGAAGGCCATCTCCCAAGACGGCGGTAGCATGACGGAAGCAGGCCATCTCCCAAGACGGCGGTTGGCAATGACGGAAGCCAATCTCCCAAGACGGCGGTTGGCCAATGACGGAAGACGGCGAGCCATCTCCCAAGACGGCGGTTGGCCAATGACGGAAGACGGCGAGCCATCTCCAAGACGGCGGTTGGCCAATGACGACGAGACGACGAGCAATCTCCAAAGACGGCGGTTGGCCAATGACAGACGGCGAGCCATCTCCAAAGACGGCGGTTGGCCAATGACGACGAGACGACGAGACAGAC	80 80 80
ANT1m ANT2m ANT3m	CCCCATCGAGAGGGGTCAAAACTGCTGCTGCAGGTCCAGCATGCCAGCAAAACAGTGCAGATCAAGTGCTGAGAAAGCAGTACAAAAGAGAACCAGTACAAAAGAGAACCAGTACAAAAGAGAACCAGATCAACAAAGAGAATAAAGCAAATAAAAAAAGACAATCAACGAGAATAAAGCAAATAAAAAAAA	160 160 160
ANT1m	TCATITGATITGTIGTGGTGAGAATCCCTAAGGAGCAGGGCTITCCTTCTGGAGGGGTAACCTGGCCAACGTGATCCGT	240
ANT2m	TTIATAGACTGCGTGGTCCGTATITCCCAAGGAGCAGGAGGTTCTGTCCTTCTGGCGAGGGGCTAACCTGGCCAATTGTCATCAGA	240
ANT3m	TCGTGGACTGCATTTTGTCCCCCATCCCCAAGGAGCAGGGCGTGCTGTCCTTCTGGAGGGGCCAACCTTTGCCAACGTCATTTCGC	240
ANT1m ANT2m ANT3m	TACTTCCCCACCCAAGCTCTCAACTTCGCCTTCAAGGAQAAGTACAAGCAGQTCTTCQTIIAGGGGGTGTGGATCQGCATAAGTACAAGCAGATCTTCCCCACCCAGGCTCTGAACTTCGCCTTCAAAGGATAAAGTACAAGCAGATCTTCCTGGGGTGTGGACAAGAGAAACTACCTTCCCCAQQTCAAGCQCCTCAACTTCGCCTTCAAGGATAAGTACAAGCAGATCTTCCTGGGGGGQQGTGTGGACAAGCACACACACACACACACACACACACACAC	320 320 320
ANT1m	GCAGTTCTGGCGCTACTTTGQTGGTAACCTGGCGTCCGGTGCGGCCCGCTGGGGCCCACCTCCCTTTTGCTTTGTQTACCCGC	400
ANT2m	QCAGTT[]]TGGGT]CTACTTTGCAGGGAATICTGGCATCQGGGTGGTGCCGCAGGGGCCACATCCCTTGTGT]TTTTGTGTACCCGTC	400
ANT3m	GCAGTTCTGGAGGTACTTTGCCGGCCAACCTGGCCTCCGGCGGGGGGGG	400
ANT1m	TGGAQTTTGCTAGGACCAGGTTGGCTGCTGATGTGGGCAGGCTGCGCCCAGCCTGAGTTCCATGGTCTGGGCGACTGTT	477
ANT2m	TTGCCCQCTACCCCGTCTAGCCAGCTGATGTGGGTAAAGCTTGGAGCTGAAAGCGAGAGTTCCGAGGCCTQGGTGACTGC	480
ANT3m	TGGATTTTGCCCAGAACCCCGCTGGCAGCGGAAAGTTCAGGCAAAGTTCAGGCAGAGAGAG	480

 $\Box$ 

Ü

Ū

IJ

ñ.

Express Mail No. EL 755725003 US

Inventors: Christen M. Anderson et at.

Serial No. 09/811,131

Docket No. 660088.420D1

ANT2m CTGQTTAAGATCTACAAAATCTGATGQQATITAAGGGCCTGTACCAAGGCTTITAACGTQTCTGTGCAGGQTATITATCATCTA 560 ANT3m CTGGTGAAGATOACCAAGTOCGAACGCCATCCGGGGCCTGTACCAGGGCTTCAGTGTCTCCGTGCAGGGCATCATCATCTA 560 637 ANT2m CCGAGOCGCCTACTTCGGTÄTCTATGADACTGCAAAGGGAATGCTTTCCGGATTCCCAAGAACACTTCACATCGTCÄTDAGCT 640 ANT3m CCGGGCGCCTACTTCGGCGTGTACGATACGGCCAAGGGCATGCTCCCCAAGAACACGCACATCGTCGTGGTGAGCT 640 ANT1m GGATGATITGCCCCAGAGTGTGACGGCAGTCGCAGGGCCTGGTGCTCGTCGTAGAATGATGATGATG 717 ANT2m GGATGATCGCACAGACTGTDAQTIGQTGTTTGCCGGGTTTGACTTTCCATTCCATTCGCCACTGTTCGCCACTGATGATGATG 720 797 ANT2m CAGTOAGGCGCAAAGGAACTGACATCATGTACACAGGCACGCTTGACTGCTGGCGGAAGATTGCTCGTGATGAAGGAGG 800 ANT3m CAGTCCGGGCGCAAAGGAGCTGACATCATGTACACGGGCACCGTTGGACTGTTTGGAGGAAGATCTTTCAGAGAGATGAGGGGGGG 800 ANT2m CAAAGCOTTITITITCAAGGGTGCATGGTCCAATGTTTCTQAGAGGCATGGGTGGTGCTTTTGTGCTTTGTATGATGAAA 880 ANT3m CAAGGCCTTCTTCAAGGGTGCQTGGTCCAAQGTQCTGCQQGGGCATGGQQGGGCGCGCGTTQGTGCTGGTQQTGTAQGAQGAQGC 880 ANT1m TCAA\\AA\TA\TGTCTAA 894 ANT2m TCAAGAAGTACACATAA 897 ANT3m TCAAGAAGGTGATCTAA 897

ANT1m ATCATOAAGATCTTTCAAGTCTGATGGCCTQAGGGGCCTQTACCAGGGTTTCAACGTCTCTGTQCAAGGCATCATTTATCTA 557

Title: PRODUCTION OF ADENIMON TIDE TRANSLOCATOR (ANT), NOVEL ANT CAND NO SCREENING ASSAYS THEREFOR Express Mail No. EL 755725003 US

Inventors: Christen M. Anderson et at. Serial No. 09/811,131 Docket No. 660088.420D1

HANTIP MCDFIAMSFILKDFLAGAVAAAVSKTAVAPIERVKLLLQVQHASKQISAEKQ HANT2D MTDAAVSFAKDFLAGGVAAAISKTAVAPIERVKLLLQVQHASKQIJTADKQ 50 HANT3D MTEQAISFAKDFLAGGIAAAISKTAVAPIERVKLLLQVQHASKQIAADKQ 50 HANT1p YKGIIDCVVRIPKEQQFLSFWRGNLANVIRYFPTQALNFAFKDKYKQQFL 100 HANT2p YKGIIDCVVRIPKEQEVLSFWRGNLANVIRYFPTQALNFAFKDKYKQIFL 100 HANT3p YKGIMDQTIVRIPKEQGVLSFWRGNLANVIRYFPTQALNFAFKDKYKQIFL 100 HANT1p GGVDRHKDFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVQRR\_A 149 HANT2p GGVDKRTQFWLYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGKAGA 150 HANT3D GGVDKHTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGKSQTI 150 HANT1p | QREFFIGLGDQTTKIFKSDQLRGLYQGFNVSVQGTTYRAAYFGVYDTAKG 199 HANT2p EREFRGLGDCLMKIMKSDGIRGLYQGFNVSVQGIIIYRAAYFQTJYDTAKG 200 HANT3D EREFRGLGDCLMKITKSDGIRGLYQGFSVSVQGIIIYRAAYFGVYDTAKG HANT1p MLPDPKNVHIFVSWMIAQSVTAVAGLLSYPFDTVRRRMMMQSGRKGADIM HANT2p MLPDPKNTHIVIISWMIAQTVTAVAGLITSYPFDTVRRRMMMQSGRKQIDIM HANT3p MLPDPKNTHIVVSWMIAQTVTAVAQTVSYPFDTVRRRMMMQSGRKGADIM 250 HANT1p YTGTVDCWRKIARDEGAKAFFKGAWSNVLRGMGGAFVLVLYDEIKKYN. 298 HANT2p YTGTDCWRKIARDEGGKAFFKGAWSNVLRGMGGAFVLVLYDEIKKYT 299 HANT3p YTGTVDCWRKIFRDEGGKAFFKGAWSNVLRGMGGAFVLVLYDEDKKVVI. 299

Fig. 2

Inventors: Christen M. Anderson et at. Serial No. 09/811.131

Docket No. 660088.420D1

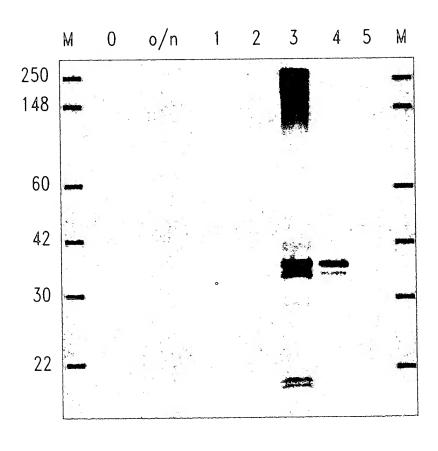


Fig. 3

ļ.) **"**1 Title: PRODUCTION OF ADEN' JULIUTIDE TRANSLOCATOR (ANT), NOVEL ANT L JUL

Inventors: Christen M. Anderson et at. Serial No. 09/811.131 Docket No. 660088.420D1

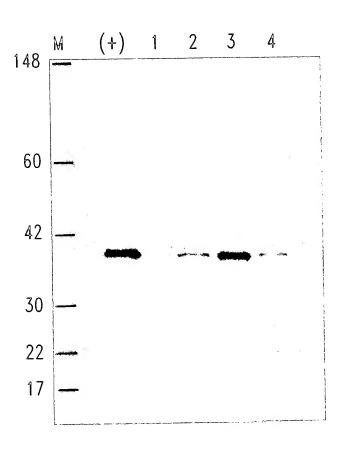


Fig. 4

Docket No. 660088.420D1

Inventors: Christen M. Anderson et at.

. Serial No. 09/811,131

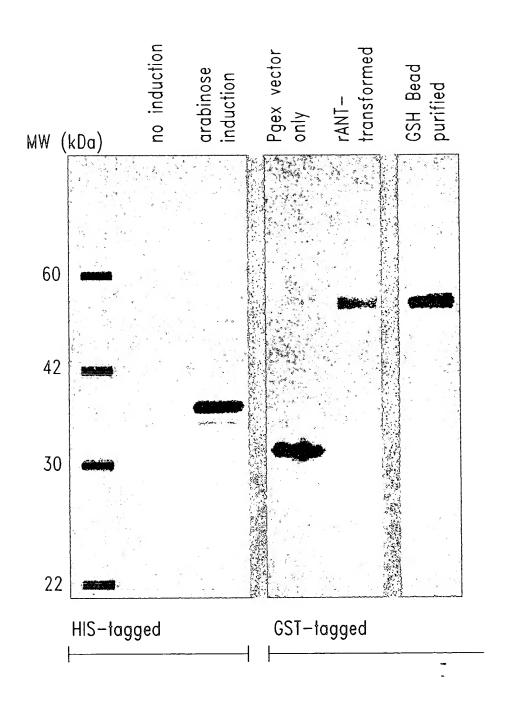


Fig. 5

Express Mail No. EL 755725003 US

Inventors: Christen M. Anderson et at.

Serial No. 09/811,131

Docket No. 660088.420D1

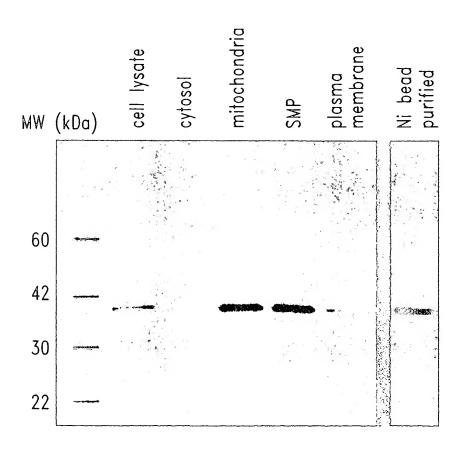


Fig. 6

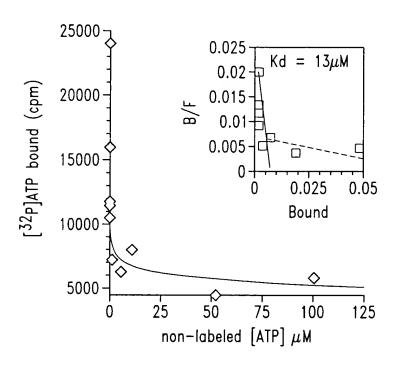


Fig. 7

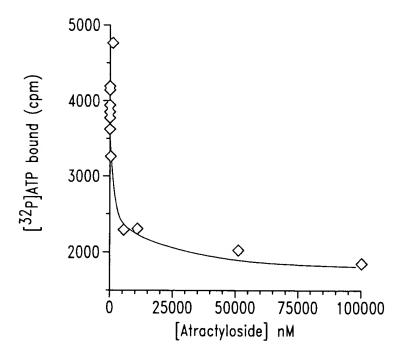
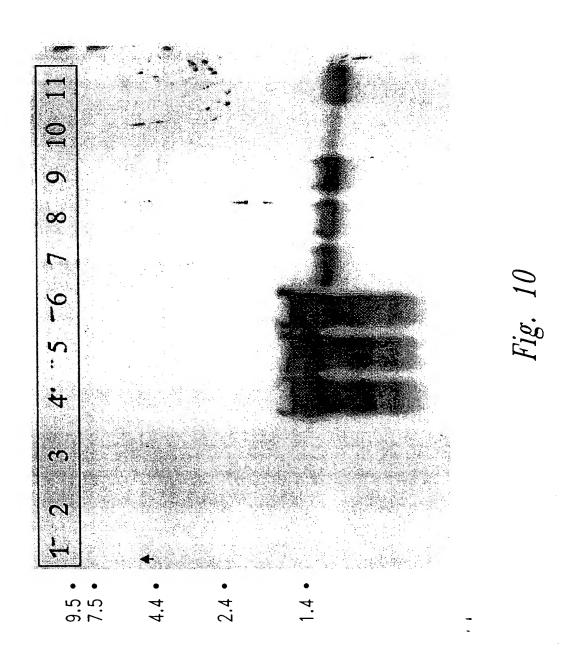


Fig. 8

Title: PRODUCTION OF ADEN! | LL\_JTIDE TRANSLOCATOR (ANT), NOVEL ANT L | 5 ...4D SCREENING ASSAYS THEREFOR Express Mail No. EL 755725003 US

Inventors: Christen M. Anderson et at. Serial No. 09/811,131 Docket No. 660088.420D1



250 Kd = 12nMBound  $[^{126}i]$  ATR (cpm) 200 1.5 🛨 150 0.5 100 50 0 1000 10 100 10000 1 [atractyloside] nM

Fig. 9

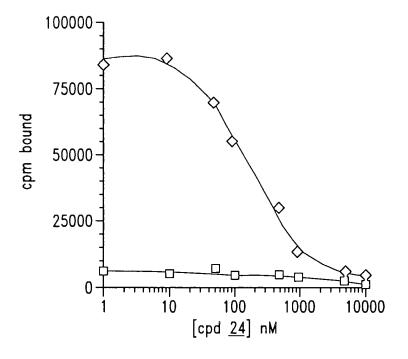


Fig. 11

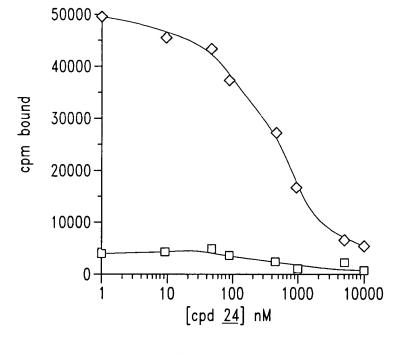


Fig. 12

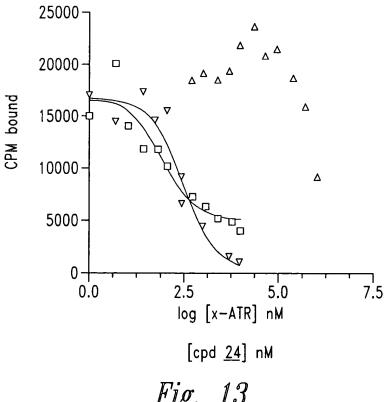
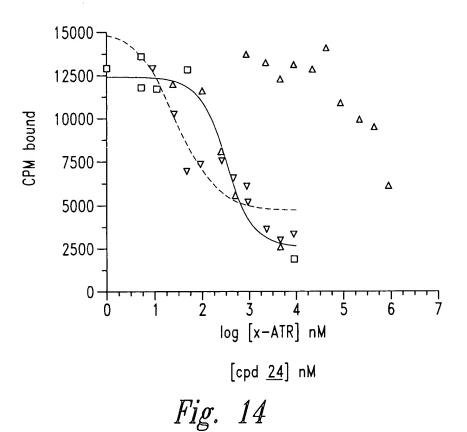


Fig. 13



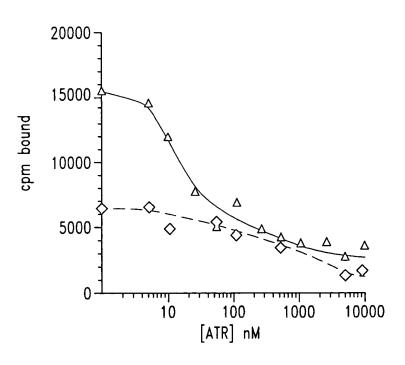


Fig. 15

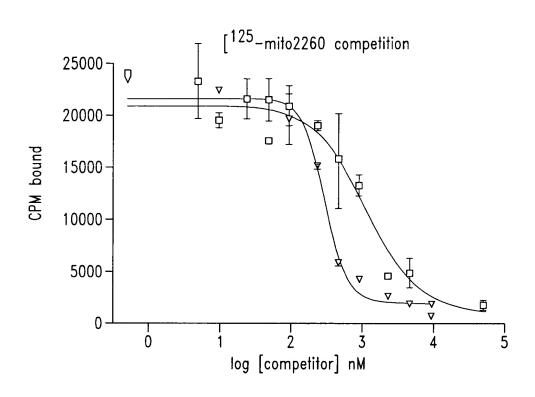


Fig. 16

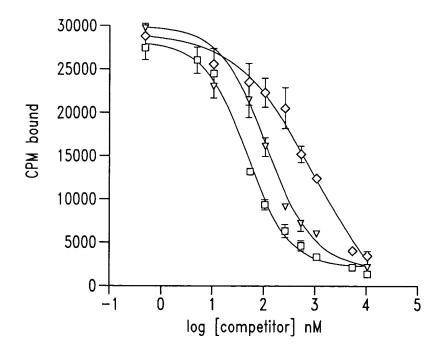


Fig. 17

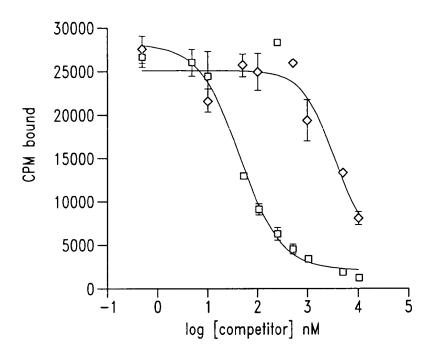


Fig. 18

